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Application No. 10/798,391
Amendment dated August 3, 2006
Reply to Office Action of

Docket No.: 3313-1130P

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A composite pickup roller equipped on a pick mechanism, said the pick mechanism being located on one side of a paper tray, comprising a plurality of gears to drive the pickup roller in contact with the top sheet of paper held in the paper tray, and rotating in a direction of paper feeding to carry the paper towards the feed roller;

wherein the pickup roller has a roller surface which includes a high friction surface and a low high friction surface, the high friction surface driving the paper through a friction force, the low friction surface permitting the paper to slide through, and the high friction surface having a length which is determined by the distance between an initial position of the paper and the feed roller, during paper pickup, the pick mechanism turns in clockwise direction to drive the pickup roller, moving in the paper feeding direction, to contact and pickup paper by rotating, once the paper arrives in the feed roller, the pick mechanism rotates counterclockwise to move the pickup roller away from the paper without impeding the continuous movement of the paper.

2. (Original) The pickup roller of claim 1, wherein the high friction surface is made from a soft rubber.

3. (Canceled)

4. (Canceled)

5. (Currently amended) The pickup roller of claim 4 1, wherein the feed wheel is made from a hard plastic to provide a smooth surface.

6. (Currently amended) A pick mechanism located on one side of a paper tray, comprising:

a transmission gear connecting to a power input shaft;

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an idling gear engaged with the transmission gear having an axis coupled with the power input shaft through a first linkage bar;

a pickup gear engaged with the idling gear having an axis coupled with the axis of the idling gear through a second linkage bar; and

a pickup roller located on one side of the pickup gear coupling on a pivot shaft with the pickup gear in a coaxial manner;

an outer frame fastened to an inner side of the paper tray, the gears and the pickup roller being located on an inner side of the outer frame; and

wherein the transmission gear is driven by the power input shaft to transfer driving power through the idling gear and the pickup gear, the pickup roller rotating in the direction of paper feeding to move a top sheet of paper in the paper tray.

7. (Canceled)

8. (Currently amended) The pick mechanism of claim 7_6, wherein the outer frame is fastened to the inner side of the paper tray through a linkage block.

9. (Currently amended) The pick mechanism of claim 7_6, wherein the outer frame has at least one retaining slot run through by the pivot shaft.

10. (Currently amended) The pick mechanism of claim 7_6, wherein the outer frame is run through by the power input shaft.

11. (Original) The pick mechanism of claim 6, wherein the paper tray has one side forming a slot run through by the pivot shaft.

12. (Original) The pick mechanism of claim 6, wherein the pickup roller has a roller surface which includes a high friction surface and a low friction surface.

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13. (Original) The pick mechanism of claim 12, wherein the high friction surface is made from a soft rubber.

14. (Canceled)

15. (Canceled)

16. (Currently amended) The pick mechanism of claim ~~15~~ 6, further comprising a wherein the feed wheel is made from a hard plastic to provide a smooth surface.

17. (Original) The pick mechanism of claim 12, wherein the power input shaft provides rotational power in one direction.

18. (Original) The pick mechanism of claim 6, wherein the pickup roller has a roller surface made from a soft rubber.

19. (Original) The pick mechanism of claim 6, wherein the power input shaft provides rotational power in dual directions.

20. (Original) The pick mechanism of claim 6, wherein the first linkage bar and the second linkage bar are formed in a plate shape.